University of California, Berkeley
Physics 110A, Section 1, Fall 2001 (Strovink)

GENERAL INFORMATION (25 Sep 01)

Web site for this course: http://d0lbln.lbl.gov/110af01-web.htm .

Instructors: Prof. **Mark Strovink**, 437 LeConte; (LBL) 486-7087; (home, before 10) 486-8079; (UC) 642-9685. Email: strovink@lbl.gov . Web: http://d0lbln.lbl.gov/ . Office hours: M 3:15-4:15, 5:30-6:30.
Mr. **Daniel Larson**, 281 LeConte, (UC) 642-5647. Email: dtlarson@socrates.berkeley.edu . Office hours (in 281 LeConte): Th 11:30-12:30, F 2-3.

Lectures: MWF 10:10-11:00 in 329 LeConte, and Tu 5:10-6:30 in 329 LeConte. The Tu 5:10-6:30 slot will be used occasionally during the semester for the midterm exams; for reviews and special lectures; and for lectures that substitute for those which would normally be delivered later in the week. Lecture attendance is strongly encouraged, since the course content is not exactly the same as that of the text.

Discussion Sections: W 4:10-5 in 409 Davis, and Th 4:10-5 in 385 LeConte. Begin in second week. Taught by Mr. Larson. You are especially encouraged to attend discussion section regularly. There you will learn techniques of problem solving, with particular application to the assigned exercises.

Texts:
• Griffiths, **Introduction to Electrodyamics** (3rd ed., Prentice-Hall, 1999, required). Get the fourth (or later) printing, which has fewer typos. I feel that this text is well written and pedagogically effective, though its scope is modest and its problems are sometimes not very physical.
• If you are planning to attend physics graduate school, it would be smart now to purchase Jackson, **Classical Electrodynamics** (3rd ed., Wiley). Optionally, it can be useful in this course.

Problem Sets: A required and most important part of the course. Eleven problem sets are assigned and graded. Problem sets are due on Fridays at 5 PM, beginning in week 2. *Exceptions*: no problem set is due in the week preceding each midterm exam; the problem set that normally would be due on Friday of the week of the second midterm exam instead is due four days later, on Tuesday of Thanksgiving week (no other problem set is due on Thanksgiving week). Deposit problem sets in the box labeled "110A Section 1 (Strovink)" in the second floor breezeway between LeConte and Birge Halls. You are encouraged to attempt all of the problems. Students who do not do so find it almost impossible to learn the material and to succeed on the examinations. Late papers will not be graded. Your lowest problem set score will be dropped, in lieu of due date extensions for any reason. You are encouraged to discuss problems with others in the course, but you must write up your homework by yourself. (It is straightforward to identify solutions that are written collectively; our policy is to divide the score among the collectivists.)

Exams: There will be two 80-minute midterm examinations and one 3-hour final examination. Before confirming your enrollment in this class, please check that its final Exam Group 1 does not conflict with the Exam Group for any other class in which you are enrolled. Please verify now that you will be available for the midterm examinations on Tu 16 Oct (in 4 LeConte) and Tu 13 Nov (in 50 Birge), both at 5:10-6:30 PM; and for the final examination on W 12 Dec, 8-11 AM. Except for unforeseeable emergencies, it will not be possible for the midterm or final exams to be rescheduled. Passing 110A requires passing the final exam.

Grading: 25% problem sets, 35% midterms, 40% final exam. Departmental regulations call for an *A*:*B*:*C* distribution in the ratio 2:3:2, with approximately 10-15% *D*'s or *F*'s. However, the fraction of *D*'s or *F*'s depends on you; no minimum number need be given.